

ABSTRACT

This invention relates to radiation curable compositions comprising an alkenyl ether functional polyisobutylene, a cationic photoinitiator, and a miscible reactive diluent selected from specified organic vinyl ether compounds, epoxy functional compounds, or

5 compounds having the formula R^8X_b , wherein R^8 is a non-silicon containing organic group, X is an organic group containing at-least one acrylate functional group, and b has a value of 1-3. The radiation curable compositions exhibit a low cure energy, have a high moisture vapor barrier, high damping characteristics, and a high refractive index, and provide a barrier to corrosive vapors and have maintained or enhanced modulus, tensile
10 strength, and toughness.

Parameter	Unit	Value
Mean	mm	1.5
Standard deviation	mm	0.5
Minimum	mm	0.5
Maximum	mm	2.5
Range	mm	2.0
Mode	mm	1.0
Median	mm	1.2
Interquartile range	mm	0.8
Skewness		0.5
Kurtosis		1.0
Correlation coefficient		0.8
Regression equation		$y = 0.8x + 0.2$
Confidence interval		±0.1
Significance level		0.05
Power		0.8
Effect size		0.5
Sample size		100
Population size		1000
Response rate		0.9
Non-response rate		0.1
Dropout rate		0.05
Attrition rate		0.05
Retention rate		0.95
Completion rate		0.9
Follow-up rate		0.8
Lost to follow-up rate		0.2
Refusal rate		0.1
Non-compliance rate		0.05
Adherence rate		0.95
Dropout rate		0.05
Attrition rate		0.05
Retention rate		0.95
Completion rate		0.9
Follow-up rate		0.8
Lost to follow-up rate		0.2
Refusal rate		0.1
Non-compliance rate		0.05
Adherence rate		0.95